## **CLAIMS**

What is claimed is:

1. A metal wood golf club head adapted for attachment to a shaft comprising:
a substantially hollow body welded to a stamped metal impact insert;
the body including a heel portion, a toe portion, a crown portion, a sole plate, a
skirt portion connecting the heel portion to the toe portion, and a face perimeter having an
opening for receiving the stamped metal impact insert;

an upper section of the face perimeter forming a transition junction with the crown portion, and a lower section of the perimeter face forming a junction with the sole plate; and

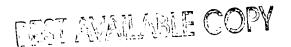
the opening of the face perimeter a suitable distance from either of the transition junctions,

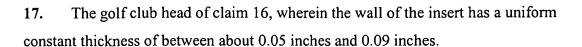
thereby, substantially eliminating welding at the transition junctions.

- 2. The golf club head of claim 1, wherein the distance from either the crown or the sole plate transition junctions to the face perimeter is at least about 0.20 inches.
- 3. The golf club head of claim 1, wherein the distance from either the crown or sole plate transition junctions to the face perimeter is at least about 0.15 inches.
- 4. The golf club head of claim 2, wherein the face perimeter and the insert are substantially oval shaped.
- 5. The golf club head of claim 4, wherein the shell thickness of the face perimeter is approximately 0.80 inches.
- 6. The golf club head of claim 5, wherein the hollow cast body and the insert are made substantially of titanium or titanium based alloy.



- 7. The golf club head of claim 6, wherein the wall thickness of the insert is approximately 0.10 inches at its center and about 0.09 inches at its outer edge.
- 8. The golf club head of claim 7, wherein the insert comprises having at least two different radii of curvature for interior and exterior surfaces.
- 9. The golf club head of claim 1, wherein the size of the club head is between about 350 and 500 cubic centimeters.
- 10. The golf club head of claim 9, wherein the body and the insert are made from a titanium alloy.
- 11. The golf club head of claim 1, wherein the size of the club head is between about 270 and 450 cubic centimeters.
- 12. The golf club head of claim 11, wherein the body is substantially 6-4 titanium alloy and the insert is substantially 15-3-3-3 titanium alloy.
- 13. The golf club head of claim 12, wherein the wall of the insert has a uniform thickness of between about 0.100 inches and 0.125 inches.
- 14. The golf club head of claim 1, wherein the size of the club head is between about 230 to 350 cubic centimeters.
- 15. The golf club head of claim 14, wherein the wall of the insert has a uniform thickness between about 0.75 inches and 0.105 inches.
- 16. The golf club head of claim 14, wherein the club head loft is equal to or greater than 13°.

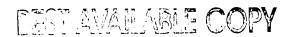


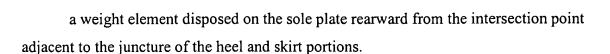


- 18. The golf club head of claim 1, wherein the cast body includes a weight element disposed on the sole plate, in an area adjacent to the juncture of the heel and skirt portions.
- 19. The golf club head of claim 18, wherein the body has a generally cylindrical hosel extending from the heel portion, an extension of the hosel centerline axis having an intersection point with the sole plate.
- 20. The golf club head of claim 19, wherein the weight element is preferably centered on a point substantially rearward from the intersection point.
- 21. The golf club head of claim 20, wherein the center of the weight element is disposed at a distance greater than about 1.5 inches from the intersection point.
- 22. The golf club head of claim 20, wherein the center of the weight element is disposed at a distance greater than about 1.0 inches from the intersection point.
- 23. The golf club head of claim 20, wherein the weight element is greater than 12 grams and preferably greater than 16 grams.
- 24. A metal wood golf club head adapted for attachment to a shaft comprising:
  a substantially hollow body having a crown portion, a sole plate, a toe portion, a
  heel portion, a skirt portion having a juncture with the heel portion and a ball striking
  face extending therebetween,

the body having a hosel extending from the heel portion for attachment to the shaft,

the hosel having a centerline axis, an extension of which meets the sole plate at an intersection point,





- 25. The golf club head of claim 24, wherein the weight element is centered and disposed on the sole plate at a distance greater than about 1.0 inches and preferably greater than about 1.5 inches from the intersection point.
- 26. The golf club head of claim 25, wherein the weight element is chosen from a variety of weight units, each weight unit designed for a specific swing dynamic.
- 27. The golf club head of claim 26, wherein the weight element is greater than about 12 grams and preferably greater than about 16 grams.

